

Table 9.1A--Runoff curve numbers for hydrologic soil-cover complexes that include crop residue cover^{1/}

Land use	Cover description Treatment or practice ^{2/}	Hydrologic condition ^{3/}	Curve numbers for hydrologic soil group--			
			A	B	C	D
Fallow	Crop residue cover (CR)	poor	76	85	90	93
	" " " "	good	74	83	88	90
Row crops	Straight row & CR	poor	71	80	87	90
	" " "	good	64	75	82	85
	Contoured + CR	poor	69	78	83	87
	" "	good	64	74	81	85
	Contoured + terraces + CR	poor	65	73	79	81
	" " "	good	61	70	77	80
Small grain	Straight row + CR	poor	64	75	83	86
	" " "	good	60	72	80	84
	Contoured + CR	poor	62	73	81	84
	" "	good	60	72	80	83
	Contoured + terraces + CR	poor	60	71	78	81
	" " "	good	58	69	77	80

^{1/} Average runoff condition and $I_a = 0.2S$.

^{2/} Crop residue cover applies only if residue is on at least 5% of the surface throughout the year.

^{3/} Hydrologic condition is based on combination of factors that affect infiltration and runoff, including (a) density and canopy of vegetation, (b) amount of year-round cover, (c) amount of grass or close-seeded legumes in rotations, (d) percent of residue cover on the land surface (good $\geq 20\%$), and (e) degree of surface roughness.

Poor: Factors impair infiltration and tend to increase runoff.

Good: Factors encourage average and better than average infiltration and tend to decrease runoff.



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AMENDMENT 7

SUBJECT: ENG - RUNOFF CURVE NUMBERS FOR CROP RESIDUE COVER

Purpose: To transmit a revised Table 9.1A of National Engineering Handbook, Section 4 - Hydrology (NEH-4), Runoff curve numbers for hydrologic soil-cover complexes that include crop residue cover.

Effective Date: Effective when received.

Explanation: The nomenclature associated with conservation tillage and residue management has been undergoing changes in the last few years. The nomenclature in Table 9.1A has been revised to be consistent with information in Table 2-2b of TR-55. The runoff curve number values for the soil cover complexes listed in Table 9.1A have not changed.

Filing Instructions: Table 9.1A should be inserted immediately following page 9.2 in NEH-4. The old Table 9.1A, dated March 1985, on page 9.2A should be destroyed.

Distribution: This notice should be distributed to all SCS offices that have copies of NEH-4. Copies will be distributed from National Headquarters to federal agencies at their national office level. States should make copies of this notice available to other federal, state, and local agencies who may be using NEH-4. Additional copies of this notice may be ordered from Central Supply by ordering NEH-004A.

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Enclosure

DIST: NEH-4



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